

03/07/02  
JC860 U.S. PTO

8228 US PTO  
10/09/2002  
03/07/02

Please type a plus sign (+) inside this box  +

Approved for use through 10/31/2002. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>UTILITY PATENT APPLICATION TRANSMITTAL</b> <small>(Only for new nonprovisional applications under 37 CFR 1.53(b))</small>		Attorney Docket	PC009C1
		First Inventor	Rosen et al.
		Title	Nucleic Acids, Proteins, and Antibodies
		Express Mail Label	

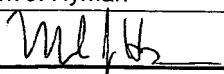
<b>APPLICATION ELEMENTS</b> <small>See MPEP chapter 600 concerning utility patent application contents.</small>		<b>ADDRESS TO:</b> Box Patent Application Commissioner for Patents Washington, DC 20231	
<p>1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) <small>(Submit an original, and a duplicate for fee processing)</small></p> <p>2. <input type="checkbox"/> Applicant claims small entity status. <small>See 37 CFR 1.27.</small></p> <p>3. <input checked="" type="checkbox"/> Specification <span style="border: 1px solid black; padding: 2px;">[Total Pages 641]</span></p> <p style="margin-left: 20px;">(preferred arrangement set forth below)</p> <ul style="list-style-type: none"> <li>- Descriptive title of the invention</li> <li>- Cross Reference to Related Applications</li> <li>- Statement Regarding Fed sponsored R &amp; D</li> <li>- Reference to sequence listing, a table, or a computer program listing appendix</li> <li>- Background of the Invention</li> <li>- Brief Summary of the Invention</li> <li>- Brief Description of the Drawings (if filed)</li> <li>- Detailed Description</li> <li>- Claim(s)</li> <li>- Abstract of the Disclosure</li> </ul> <p>4. <input type="checkbox"/> Drawing(s) (35 U.S.C. 113) <span style="border: 1px solid black; padding: 2px;">[Total Sheets 5]</span></p> <p>5. Oath or Declaration <span style="border: 1px solid black; padding: 2px;">[Total Pages 5]</span></p> <p>a. <input type="checkbox"/> Newly executed (original or copy)</p> <p>b. <input checked="" type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) <small>(for continuation/divisional with Box 18 completed)</small></p> <p>i. <input type="checkbox"/> <u>DELETION OF INVENTOR(S)</u> <small>Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</small></p> <p>6. <input checked="" type="checkbox"/> Application Data Sheet. See 37 CFR 1.76 (7 pages)</p>		<p>7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)</p> <p>8. <input type="checkbox"/> Nucleotide and/or Amino Acid Sequence Submission <small>(if applicable, all necessary)</small></p> <p>a. <input checked="" type="checkbox"/> Computer Readable Form (CRF)</p> <p>b. Specification Sequence Listing on:           <ul style="list-style-type: none"> <li>i. <input checked="" type="checkbox"/> CD-ROM or CD-R (2 copies); or</li> <li>ii. <input type="checkbox"/> paper</li> </ul> </p> <p>c. <input checked="" type="checkbox"/> Statements verifying identity of above copies</p>	

<b>ACCOMPANYING APPLICATIONS PARTS</b>			
<p>9. <input type="checkbox"/> Assignment Papers (cover sheet &amp; document(s))</p> <p>10. <input type="checkbox"/> 37 CFR 3.73(b) Statement <small>(when there is an assignee)</small> <input checked="" type="checkbox"/> Associate Power of Attorney</p> <p>11. <input type="checkbox"/> English Translation Document (if applicable)</p> <p>12. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations</p> <p>13. <input type="checkbox"/> Preliminary Amendment</p> <p>14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <small>(Should be specifically itemized)</small></p> <p>15. <input type="checkbox"/> Certified Copy of Priority Document(s) <small>(if foreign priority is claimed)</small></p> <p>16. <input type="checkbox"/> Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). <small>Applicant must attach form PTO/SB/35 or its equivalent.</small></p> <p>17. <input checked="" type="checkbox"/> Other: <span style="border: 1px solid black; padding: 2px;">1. Statement Under 37 C.F.R. § 1.821 2. Transmittal and Submission Under 37 C.F.R. §§ 1.824 and 1.52(e)</span></p>			
<p>18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:</p> <p><input checked="" type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application No. <span style="border: 1px solid black; padding: 2px;">09/764,847</span></p>			

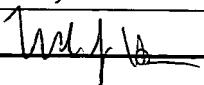
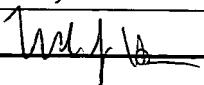
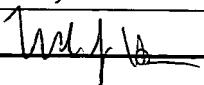
Prior application information: Examiner Clow, L. Group / Art Unit: 1631

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.

<b>19. CORRESPONDENCE ADDRESS</b>			
<input checked="" type="checkbox"/> Customer Number or Bar Code Label		22195	or <input type="checkbox"/> Correspondence address below
Name			
Address			
City	State	Zip Code	
Country	Telephone		Fax

Name (Print/Type)	Mark J. Hyman		Registration No. (Attorney/Agent)	46,789
Signature			Date	March 7, 2002

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>FEE TRANSMITTAL</b> <b>for FY 2002</b> <small>Patent fees are subject to annual revision.</small>		<b>Complete if Known</b>																																																																																																																																																																																
<input type="checkbox"/> Application claims small entity status. See 37 CFR 1.27 <b>TOTAL AMOUNT OF PAYMENT</b> <b>(\$)</b> <b>896.00</b>		Application Number	Not Yet Assigned																																																																																																																																																																															
		Filing Date	Herewith																																																																																																																																																																															
		First Named Inventor	Rosen et al.																																																																																																																																																																															
		Examiner Name	Not Yet Assigned																																																																																																																																																																															
		Group Art Unit	Not Yet Assigned																																																																																																																																																																															
		Attorney Docket No.	PC009C1																																																																																																																																																																															
<b>METHOD OF PAYMENT (check all that apply)</b>		<b>FEE CALCULATION (continued)</b>																																																																																																																																																																																
<input type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> Other <input type="checkbox"/> None <input checked="" type="checkbox"/> Deposit Account Deposit Account Number <b>08-3425</b> Deposit Account Name <b>Human Genome Sciences, Inc.</b> <small>The Commissioner is hereby authorized to: (check all that apply)</small> <input checked="" type="checkbox"/> Charge fee(s) indicated below <input checked="" type="checkbox"/> Credit any overpayments <input checked="" type="checkbox"/> Charge any additional fee(s) during the pendency of this application <input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.		<b>3. ADDITIONAL FEES</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Large Entity</th> <th style="width: 15%;">Small Entity</th> <th colspan="2" style="width: 70%;">Fee Description</th> <th style="width: 10%;">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> <th></th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge – late filing fee or oath</td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge – late provisional filing fee or cover sheet.</td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for <i>ex parte</i> reexamination</td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td></tr> <tr><td>116</td><td>400</td><td>216</td><td>200</td><td>Extension for reply within second month</td></tr> <tr><td>117</td><td>920</td><td>217</td><td>460</td><td>Extension for reply within third month</td></tr> <tr><td>118</td><td>1,440</td><td>218</td><td>720</td><td>Extension for reply within fourth month</td></tr> <tr><td>128</td><td>1,960</td><td>228</td><td>980</td><td>Extension for reply within fifth month</td></tr> <tr><td>119</td><td>320</td><td>219</td><td>160</td><td>Notice of Appeal</td></tr> <tr><td>120</td><td>320</td><td>220</td><td>160</td><td>Filing a brief in support of an appeal</td></tr> <tr><td>121</td><td>280</td><td>221</td><td>140</td><td>Request for oral hearing</td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive – unavoidable</td></tr> <tr><td>141</td><td>1,280</td><td>241</td><td>640</td><td>Petition to revive - unintentional</td></tr> <tr><td>142</td><td>1,280</td><td>242</td><td>640</td><td>Utility issue fee (or reissue)</td></tr> <tr><td>143</td><td>460</td><td>243</td><td>230</td><td>Design issue fee</td></tr> <tr><td>144</td><td>620</td><td>244</td><td>310</td><td>Plant issue fee</td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Processing fee under 37 CFR 1.17(q)</td></tr> <tr><td>126</td><td>180</td><td>126</td><td>180</td><td>Submission of Information Disclosure Stmt</td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td></tr> <tr><td>146</td><td>740</td><td>246</td><td>370</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td></tr> <tr><td>149</td><td>740</td><td>249</td><td>370</td><td>For each additional invention to be examined (37 CFR 1.129(h))</td></tr> <tr><td>179</td><td>740</td><td>279</td><td>370</td><td>Request for Continued Examination (RCE)</td></tr> <tr><td>169</td><td>900</td><td>169</td><td>900</td><td>Request for expedited examination of a design application</td></tr> <tr><td colspan="5">Other fee (specify) _____</td></tr> <tr> <td colspan="3" style="text-align: center;">*Reduced by Basic Filing Fee Paid</td> <td colspan="2" style="text-align: center;">SUBTOTAL (3) <b>(\$)</b> <b>0.00</b></td> </tr> <tr> <td colspan="2" style="text-align: center;">SUBMITTED BY</td> <td colspan="3" style="text-align: center;">Complete (if applicable)</td> </tr> <tr> <td>Name (Print/Type)</td> <td colspan="2">Mark J. Hyman</td> <td>Registration No. (Attorney/Agent)</td> <td>46,789</td> </tr> <tr> <td>Signature</td> <td colspan="2"></td> <td>Date</td> <td>March 7, 2002</td> </tr> </tbody></table>		Large Entity	Small Entity	Fee Description		Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)		105	130	205	65	Surcharge – late filing fee or oath	127	50	227	25	Surcharge – late provisional filing fee or cover sheet.	139	130	139	130	Non-English specification	147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination	112	920*	112	920*	Requesting publication of SIR prior to Examiner action	113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	115	110	215	55	Extension for reply within first month	116	400	216	200	Extension for reply within second month	117	920	217	460	Extension for reply within third month	118	1,440	218	720	Extension for reply within fourth month	128	1,960	228	980	Extension for reply within fifth month	119	320	219	160	Notice of Appeal	120	320	220	160	Filing a brief in support of an appeal	121	280	221	140	Request for oral hearing	138	1,510	138	1,510	Petition to institute a public use proceeding	140	110	240	55	Petition to revive – unavoidable	141	1,280	241	640	Petition to revive - unintentional	142	1,280	242	640	Utility issue fee (or reissue)	143	460	243	230	Design issue fee	144	620	244	310	Plant issue fee	122	130	122	130	Petitions to the Commissioner	123	50	123	50	Processing fee under 37 CFR 1.17(q)	126	180	126	180	Submission of Information Disclosure Stmt	581	40	581	40	Recording each patent assignment per property (times number of properties)	146	740	246	370	Filing a submission after final rejection (37 CFR 1.129(a))	149	740	249	370	For each additional invention to be examined (37 CFR 1.129(h))	179	740	279	370	Request for Continued Examination (RCE)	169	900	169	900	Request for expedited examination of a design application	Other fee (specify) _____					*Reduced by Basic Filing Fee Paid			SUBTOTAL (3) <b>(\$)</b> <b>0.00</b>		SUBMITTED BY		Complete (if applicable)			Name (Print/Type)	Mark J. Hyman		Registration No. (Attorney/Agent)	46,789	Signature			Date	March 7, 2002
Large Entity	Small Entity	Fee Description		Fee Paid																																																																																																																																																																														
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																															
105	130	205	65	Surcharge – late filing fee or oath																																																																																																																																																																														
127	50	227	25	Surcharge – late provisional filing fee or cover sheet.																																																																																																																																																																														
139	130	139	130	Non-English specification																																																																																																																																																																														
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination																																																																																																																																																																														
112	920*	112	920*	Requesting publication of SIR prior to Examiner action																																																																																																																																																																														
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action																																																																																																																																																																														
115	110	215	55	Extension for reply within first month																																																																																																																																																																														
116	400	216	200	Extension for reply within second month																																																																																																																																																																														
117	920	217	460	Extension for reply within third month																																																																																																																																																																														
118	1,440	218	720	Extension for reply within fourth month																																																																																																																																																																														
128	1,960	228	980	Extension for reply within fifth month																																																																																																																																																																														
119	320	219	160	Notice of Appeal																																																																																																																																																																														
120	320	220	160	Filing a brief in support of an appeal																																																																																																																																																																														
121	280	221	140	Request for oral hearing																																																																																																																																																																														
138	1,510	138	1,510	Petition to institute a public use proceeding																																																																																																																																																																														
140	110	240	55	Petition to revive – unavoidable																																																																																																																																																																														
141	1,280	241	640	Petition to revive - unintentional																																																																																																																																																																														
142	1,280	242	640	Utility issue fee (or reissue)																																																																																																																																																																														
143	460	243	230	Design issue fee																																																																																																																																																																														
144	620	244	310	Plant issue fee																																																																																																																																																																														
122	130	122	130	Petitions to the Commissioner																																																																																																																																																																														
123	50	123	50	Processing fee under 37 CFR 1.17(q)																																																																																																																																																																														
126	180	126	180	Submission of Information Disclosure Stmt																																																																																																																																																																														
581	40	581	40	Recording each patent assignment per property (times number of properties)																																																																																																																																																																														
146	740	246	370	Filing a submission after final rejection (37 CFR 1.129(a))																																																																																																																																																																														
149	740	249	370	For each additional invention to be examined (37 CFR 1.129(h))																																																																																																																																																																														
179	740	279	370	Request for Continued Examination (RCE)																																																																																																																																																																														
169	900	169	900	Request for expedited examination of a design application																																																																																																																																																																														
Other fee (specify) _____																																																																																																																																																																																		
*Reduced by Basic Filing Fee Paid			SUBTOTAL (3) <b>(\$)</b> <b>0.00</b>																																																																																																																																																																															
SUBMITTED BY		Complete (if applicable)																																																																																																																																																																																
Name (Print/Type)	Mark J. Hyman		Registration No. (Attorney/Agent)	46,789																																																																																																																																																																														
Signature			Date	March 7, 2002																																																																																																																																																																														

VIA HAND DELIVERY MARCH 7, 2002

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application of: Rosen et al.

Attorney Docket No.: PC009C1

Application Serial No.: Not Yet Assigned

Art Unit: Not Yet Assigned

Filed: Herewith

Examiner: Not Yet Assigned

Title: Nucleic Acids, Proteins, and Antibodies

**TRANSMITTAL AND SUBMISSION UNDER  
37 C.F.R. §§ 1.824 AND 1.52(e)**

Commissioner for Patents  
Washington, D.C. 20231

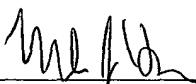
Sir:

In accordance with 37 C.F.R. §§ 1.821(e) and 1.824, Applicants submit herewith a Sequence Listing satisfying the computer readable format requirements on a compact disc (CD-R) labeled "CRF." Applicants submit concurrently herewith a Statement Under 37 C.F.R. § 1.821.

Additionally, in accordance with 37 C.F.R. §§ 1.52(e), 1.821, and 1.823, Applicants submit herewith a Sequence Listing as an electronic document on two identical compact discs (CD-R). Applicants certify under 37 C.F.R. § 1.52(e)(4) that these two compact discs, labeled "Copy 1" and "Copy 2," are identical. These compact discs, formatted for an IBM-PC machine and compatible with the MS-Windows operating system, each contain the file "PC009C1\_seqList.txt" (4,095,326 bytes in size, created March 6, 2002).

Respectfully submitted,

Dated: March 7, 2002

  
Mark J. Hyman  
Attorney for Applicants

Reg. No. 46,789

**Human Genome Sciences, Inc.**  
9410 Key West Avenue  
Rockville, MD 20850  
Telephone: (240) 314-1224

Enclosures